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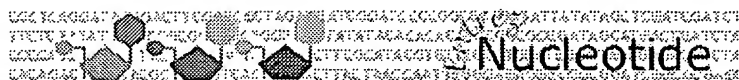
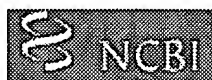
☐ 1: CAA94312. cercarial elastas...[gi:1240058]

[BLink](#), [Domains](#), [Links](#)

LOCUS CAA94312 213 aa linear INV 29-MAR-1996
 DEFINITION cercarial elastase HP1 [Schistosoma mansoni].
 ACCESSION CAA94312
 VERSION CAA94312.1 GI:1240058
 DBSOURCE embl locus SMHP1ELAS, accession [Z70296.1](#)
 KEYWORDS .
 SOURCE Schistosoma mansoni
 ORGANISM Schistosoma mansoni
 Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;
 Strigeidida; Schistosomatoidea; Schistosomatidae; Schistosoma.
 REFERENCE 1 (residues 1 to 213)
 AUTHORS Sayers, J.R., Price, H.P. and Doenhoff, M.J.
 JOURNAL Unpublished
 REFERENCE 2 (residues 1 to 213)
 AUTHORS Sayers, J.R.
 TITLE Direct Submission
 JOURNAL Submitted (21-MAR-1996) Jon R Sayers, Medicine and Pharmacology,
 University of Sheffield, Royal Hallamshire Hospital, Sheffield,
 South Yorkshire, S10 2JF, UK
 FEATURES Location/Qualifiers
 source 1..213
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 /db_xref="taxon:6183"
Protein 1..213
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CDS 1..213
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☐ 1: Z70296. *S.mansoni* elastas...[gi:1240057]

[Links](#)

LOCUS SMHP1ELAS 1477 bp DNA linear INV 29-MAR-1996
 DEFINITION *S.mansoni* elastase HP1 gene.
 ACCESSION Z70296
 VERSION Z70296.1 GI:1240057
 KEYWORDS elastase.
 SOURCE *Schistosoma mansoni*
 ORGANISM *Schistosoma mansoni*
 Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;
 Strigeidida; Schistosomatoidea; Schistosomatidae; *Schistosoma*.
 REFERENCE 1 (bases 1 to 1477)
 AUTHORS Sayers,J.R., Price,H.P. and Doenhoff,M.J.
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 1477)
 AUTHORS Sayers,J.R.
 TITLE Direct Submission
 JOURNAL Submitted (21-MAR-1996) Jon R Sayers, Medicine and Pharmacology,
 University of Sheffield, Royal Hallamshire Hospital, Sheffield,
 South Yorkshire, S10 2JF, UK

FEATURES Location/Qualifiers
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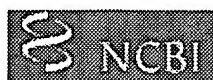
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Limits		Preview/Index		History		Clipboard		Details
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1: A28942. pancreatic elasta...[gi:84413]

[BLink](#), [Domains](#), [Links](#)

LOCUS A28942 230 aa linear INV 26-AUG-1999
 DEFINITION pancreatic elastase (EC 3.4.21.36) precursor - fluke (Schistosoma mansoni).
 ACCESSION A28942 REGION: 27..256
 VERSION A28942 GI:84413
 DBSOURCE pir: locus A28942;

summary: #length 264 #molecular-weight 28545 #checksum 7855
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 superfamily: trypsin; trypsin homology
 ;
 PIR dates: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 26-Aug-1999

KEYWORDS hydrolase; serine proteinase.

SOURCE Schistosoma mansoni

ORGANISM Schistosoma mansoni

Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;
 Strigeidida; Schistosomatoidea; Schistosomatidae; Schistosoma.

REFERENCE 1 (residues 1 to 230)

AUTHORS Newport, G.R., McKerrow, J.H., Hedstrom, R., Petitt, M., McGarrigle, L., Barr, P.J. and Agabian, N.

TITLE Cloning of the proteinase that facilitates infection by schistosome parasites

J. Biol. Chem. 263 (26), 13179-13184 (1988)

MEDLINE 88330818

PUBMED 3166457

FEATURES

Location/Qualifiers
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 Protein <1..>230
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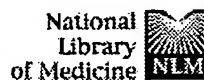
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☒ 1: Parasitology 1997 May;114 (Pt 5):447-53

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Entrez PubMed

Cloning, heterologous expression and antigenicity of a schistosome cercarial protease.

Price HP, Doenhoff MJ, Sayers JR.

PubMed
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School of Biological Sciences, University of Wales, Bangor, UK.

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A gene coding for the 30 kDa *Schistosoma mansoni* cercarial protease was amplified using the polymerase chain reaction (PCR) from genomic DNA templates. Cloning and sequencing of several independent PCR clones revealed the presence of an intron additional to the one described in the original cloning of the gene. The 3 exons were cloned into expression vectors so that they could be expressed as separate glutathione-S-transferase (GST) translational fusions. Recombinant bacteria carrying these expression plasmids expressed the fusion proteins at high levels. Western blotting of bacterial lysates with sera raised against the native *S. mansoni* cercarial protease showed that all 3 exons were recognized. Thus we have produced recombinant bacteria capable of providing large amounts of an *S. mansoni* antigen for immunological studies and evaluation as a candidate vaccine.

PMID: 9149415 [PubMed - indexed for MEDLINE]

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